

```

1
2 if __name__ == '__main__':
3     # CODE FOR CLUSTERING
4     file_path = './corona_data.csv'
5
6     pcp = PycClusteringPeople(file_path)
7     pcp.display_load_data()
8
9     # sse_list = [] # list for storing SSE(Sum of squares errors)
10    silhouette_score_list = [] # list for storing silhouette scores
11
12    # cluster with 'Severity' and 'Age' columns
13    target_col_name_list = ['Severity', 'Age']
14    k_list = [k for k in range(2, 10)] # cluster list
15    # k_list = [2, 3]
16
17    # distance_function = euclidean_distance
18    # distance_function = manhattan_distance
19    # distance_function = chebyshev_distance
20    # distance_function = minkowski_distance
21    distance_function = 'c_eu'
22
23    # for i, j in zip(range(0, 11), range(11, 0)):
24    #     print(i, j)
25    weight_list = [0.4, 0.6]
26    for num_cluster in k_list:
27        cluster_id_list = [id for id in range(num_cluster)]
28        predicted_list = pcp.pyc_cluster_kmeans(target_col_name_list,
29                                                num_cluster,
30                                                weight_list,
31                                                distance_function)
32
33        if num_cluster == 5:
34            pcp.data_to_csv(num_cluster)
35

```